SEQUENCE LISTING

<110> MENOZZI, Franco LOCHT, Camille

<120> IDENTIFICATION AND CLONING OF A MYCOBACTERIAL ANT/GEN CORRESPONDING TO A HEPARIN-BINDING HAEMAGGLUTINIA

<130> 960-34

<140> 09/192,579

<141> 1998-11-17

<150> FR 96 06168

<151> 1996-05-17

<160> 20

<170> PatentIn Ver. 2.1

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<211> 39

<212> PRT

<213> Mycobacterium

<220>

<223> sequence comprising a region involved in interactions with sulphated glycoconjugates and in heparin binding

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Pro Ala Lys Lys Ala Ala Lys Lys Ala Pro Ala Lys Lys Ala Ala 20

Ala Lys Lys Val Thr Gln Lys 35

<210> 2

<211> 10

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TEGH CENTER 1600/2900



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<223> peptide S1443; Xaa can be any amino acid
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Gly Lys
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<222>(1), (4) and (8)
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	Mycobacterium						
\Z1J /	Mycobacterium						
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	Olimpural capida animinated from the C1442 montide						
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-	(reverse oligo S1443)						
	(100.01.00 01.10)						
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	sacsg cctggtc	17					
ageces	sacing countries and the same a	1 /					
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000							
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		sequencing the gene couring for mank	
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	Catcce	acac geografic	19
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	12107	11y condition 1	
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                                                                     96
 Val Glu Arg Gly Glu Ala Ala Leu Glu Arg Leu Arg Ser Gln Gln Ser
               20
                                   25
                                                        30
 ttc gag gaa gtg tcg gcg ccc gcc gaa ggc tac gtg gac cag gcg gtc
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 gag ct
                                                                     149
 Glu
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 <223> amino sequence of a fragment of HBHA deduced from a
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PCR fragment of chromosomal BCG DNA

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55

45

_				_	_	_	_			_				ctg Leu		546
														tac Tyr		594
				-										gag Glu		642
														tcg Ser		690
														gag Glu 135		738
														gcc Ala		786
-	_	_				_		_	_	_	_	_	_	aag Lys	_	834
														gcc Ala		882
							gcg Ala									924
aagt	agto	cgg g	gctco	cgaat	c ac	ccato	cgact	ccg	gagto	cgcc	caco	gggg	cga (ctcgg	gagtcg	984
acgt	gttg	gga t	gcaa	acco	gc at	agto	ctgaa	a tgo	gtga	agcc	acct	cgt	ggg '	tacco	gtcatg	1044
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<223> Amino acid for HBHA

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Arg Val Glu Glu Ser Arg Ala Arg Leu Thr Lys Leu Gln Glu Asp Leu 50 55 60

Pro Glu Gln Leu Thr Glu Leu Arg Glu Lys Phe/Thr Ala Glu Glu Leu 65 70 75 80

Arg Lys Ala Ala Glu Gly Tyr Leu Glu Ala Ala Thr Ser Arg Tyr Asn
85 90 95

Glu Leu Val Glu Arg Gly Glu Ala Ala Leu Glu Arg Leu Arg Ser Gln
100 105 110

Gln Ser Phe Glu Glu Val Ser Ala Pro Ala Glu Gly Tyr Val Asp Gln
115 120 125

Ala Val Glu Leu Thr Gln Glu Ala Leu Gly Thr Val Ala Ser Gln Thr
130 135 140

Arg Ala Val Gly Glu Arg Ala Ala Lys Leu Val Gly Ile Glu Leu Pro 145 150 155 160

Lys Lys Ala Ala Pro Ala Lys Lys Ala Ala Pro Ala Lys Lys Ala Ala
165 170 175

Pro Ala Lys Lys Ala Ala Lys Lys Ala Pro Ala Lys Lys Ala Ala 180 185 190

Ala Lys Lys Val Thr Gln 195